

**Curriculum vitae
March 2005**

BARRY KERR LOGAN

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Appointments

July 1999-present **Director, Forensic Laboratory Services Bureau**
Washington State Patrol
2203 Airport Way S.
Seattle WA 98134-2027

Responsibilities: Directs the Forensic Laboratory Services Bureau of the Washington State Patrol, and its 160 employees. Includes Crime Laboratory Division (four full service, and two satellite crime laboratories, and latent prints laboratory), State Toxicology Laboratory Division, and Implied Consent section (Breath Alcohol and Drug Evaluation and Classification programs). Laboratory services include controlled substances, documents, trace evidence, firearms, arson, explosives, serology, DNA, chemistry, tool marks, latent prints, and alcohol, drug and poison testing. Provides expert testimony and training on alcohol and drug related issues.

July 1990 - present **Washington State Toxicologist**
Washington State Toxicology Laboratory
2203 Airport Way S.,
Seattle WA 98134-2027

Responsibilities: Director of the State Toxicology Laboratory for the State of Washington. Oversight of blood alcohol analyst program for Washington State. Expert testimony on effects of drug and alcohol intoxication, alcohol, drugs and driving.

July 1990- present **Clinical Assistant Professor**
Department of Laboratory Medicine
School of Medicine, University of Washington
Box 357110, NW-120
Seattle, WA 98195-7110

Appointments (cont'd)

1/1/87 - 6/31/90	Senior/Research Associate Toxicology Laboratory Pathology Department University of Tennessee Center for Health Sciences
1987- 1990	Instructor Department of Allied Health Sciences University of Tennessee, Memphis, TN
1982 - 1986	Instructor Medical and Forensic Chemistry Department of Chemistry University of Glasgow Glasgow, Scotland

Other Appointments / Honors (* current)

2006*	Chairman of Local Arrangements Committee for the American Academy of Forensic Sciences, 58th Annual Meeting, Seattle, WA February 2006
2005*	Board of Directors, American Academy of Forensic Sciences
2005*	Nominating Committee, National Safety Council, Committee on Alcohol and Other Drugs
2005*	Director, Board of Directors, Society of Forensic Toxicologists
2004	Toxicology Arbitration Panel, XXVIII Olympic Games
2004	Chair, Workshop "Diagnosing Drug Impaired Drivers" ICADTS meeting, Glasgow, Scotland, August 2004
2004	Chair, NHTSA/National Safety Council symposium on Improving the Integration of DRE, Investigative, and Toxicological Evidence in Drug Impaired Driving Prosecutions. Seattle, WA, May 2004
2004	Chair, Indiana University Symposium on Administration and Management of State Breath Alcohol Test Programs, October 2004
2004*	Chair, Organizing Committee for ICATDS 2007
2004*	Chair, National Safety Council symposium on Improving Integration of DRE, Investigative and Toxicological Evidence in DUI/DWI prosecutions
2003*	Assistant Treasurer, International Council on Alcohol, Drugs and Traffic Safety (ICADTS)

Other Appointments / Honors (cont'd) (* current)

2003	2003 Mid-Career Achievement Award, The International Association of Forensic Toxicologists (TIAFT)
2003	Chair, NSC/AAFS/SOFT joint workgroup on per se DUID statutes
2003	Chair, Society of Forensic Toxicologists 2003 Scientific Program
2002*	Executive Director, Indiana University Center for Studies of Law in Action
2002*	Chair, American Academy of Forensic Sciences 2003 Workshops
2002	Toxicology Arbitration Panel, 2002 Winter Olympic Games
2000	Chair, Drug Induced Diminished Capacity Workshop, Seattle WA
2000*	Chair, International Consultative Meeting on Drugs and Driving Impairment, Seattle, WA
2000*	Board of Directors, American Board of Forensic Toxicology
2000	Chair, American Academy of Forensic Sciences, Toxicology Section
2000	Chair, Multidisciplinary Session, AAFS 2001 meeting, Seattle, WA
1999*	Elected to National Safety Council, Executive Board
1999*	Appointed to editorial board, Journal of Forensic Sciences
1999	American Academy of Forensic Sciences, Toxicology section secretary
1998	American Academy of Forensic Sciences, Toxicology program chair
1998*	Appointed to Faculty, Center for Studies of Law in Action, Indiana University
1998*	Elected to International Council on Alcohol, Drugs and Traffic Safety
1998*	Chair, Committee on Drugs, Pharmacology, and Toxicology, National Safety Council Committee on Alcohol and Other Drugs
1998*	Member, Executive Committee, National Safety Council Committee on Alcohol and Other Drugs
1997*	Member, Review Committee, American Board of Forensic Toxicology
1997*	Appointed to Editorial review board, Journal of Analytical Toxicology
1997	SOFT, Nominating Committee
1997	AAFS, Toxicology section Awards and Scholarships committee

Other Appointments / Honors (cont'd) (* current)

1997	AAFS, Toxicology section program committee
1996	Rosenblatt lecturer, Barnett Institute of Chemical Analysis and Materials Science, Northeastern University, Boston, MA
1995	Award of Excellence, (Government leadership) Washington Traffic Safety Commission
1995	United States representative, and rapporteur to the United Nations Drug Control Program, Vienna, Austria
1995	Chairman, Drug Impaired Driving Advisory Committee to the Washington Traffic Safety Commission
1994	Chairman of the Mass Spectrometry Database Committee of the Toxicology Section of the American Academy of Forensic Sciences
1994	Chairman of Local Arrangements Committee for the American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA February 1995
1994 *	Elected to the National Safety Council
1993 *	Inspector, National Laboratory Certification Program, Substance Abuse and Mental Health Services Administration, Department of Health and Human Services
1993	Assoc. editor, American Academy of Forensic Sciences, "News & Views"
1992	Course administration and coordination for University of Washington Extension Program "Forensic Investigation" Class.
1992	Guest lecturer, Graduate course in Analytical Chemistry Methods Department of Chemistry, University of Washington
1989	Guest Lecturer, Analytical and Forensic Toxicology, Toxicology Program, Biology Department, Memphis State University

Peer Review

Reviewer for the Journal of the Forensic Science Society (Society and Justice), Journal of Analytical Toxicology, Clinical Chemistry, Analytica Chimica Acta, Talanta, Journal of High Resolution Chromatography and Chromatographic Communications, Third World Academy of Science, Journal of Forensic Sciences, Biological Psychiatry. Member of the Editorial Advisory Board for both the Journal of Analytical Toxicology and the Journal of Forensic Sciences.

Education

- 1982-1986** Doctor of Philosophy, (Ph.D.), Forensic Toxicology
Department of Forensic Medicine and Science
University of Glasgow, Scotland
- 1978-1982** Faculty of Science, University of Glasgow, Scotland
Degree awarded: B. Sc. (Hons) Chemistry, June 1982

Board Certification

Diplomate of the American Board of Forensic Toxicology (D.A.B.F.T.)
March 1991 – present

Continuing Professional Education

- “Drug Use Testing Symposium”
American Academy of Forensic Sciences, Pittsburgh, PA, February 1988. A one day symposium on chemical, clinical and legal aspects of drug testing in the workplace.
- “D.U.I. Instructors course”
University of Tennessee / NHTSA, Monteagle, TN, December 1988
A four day instructor’s course in Standardized Field Sobriety Testing techniques, including Horizontal Gaze Nystagmus (HGN). Formal qualification as NHTSA DUI/DWI Instructor
- “Tests for BAC in Highway Safety Programs - Supervision and Expert Testimony”
University of Indiana, Center for Studies of Law in Action, Bloomington, IN, December 1990
- “The Effects of Drugs on Human Performance and Behaviour: Drugs and Driving / Drugs in the Workplace”
American Academy of Forensic Sciences, Anaheim, CA, February 1991
A one day symposium on the pharmacology, subjective effects and potential for impairment of illicit and prescription drugs.
- “The Benzodiazepines: Pharmacology and Analytical Techniques”
American Academy of Forensic Sciences, New Orleans, LA, February 1992
- “Frontiers in Forensic Toxicology”
American Academy of Forensic Sciences, New Orleans, LA, February 1992
- “Death Investigation”
A 40 hour seminar on techniques and issues in forensic death investigation
University of Washington, Continuing Medical Education, Seattle, WA, March 1992
- “Forensic Investigation”
A 30 hour lecture course covering analytical, investigative, and procedural aspects of serious crime investigation. University of Washington Extension Program, October 1992

Continuing Professional Education (cont'd)

"Analytical Toxicology: An Algorithm Approach"

Society of Forensic Toxicologists and California Association of Toxicologists,
Phoenix, AZ, October 12, 1993

"Forensic Investigation"

A 30 hour lecture course covering analytical, investigative, and procedural aspects of
serious crime investigation. University of Washington Extension Program, October 1994

"Fundamentals in Forensic Toxicology: Pharmacologic Concepts"

American Academy of Forensic Sciences, San Antonio, TX, February 1994

"Advanced Forensic Toxicology: Pharmacologic and Interpretative Topics"

Society of Forensic Toxicology, Baltimore, MD, October 10, 1995

"Drugs and Driving: Current Pharmacologic Issues."

Society of Forensic Toxicology, Baltimore, MD, October 10, 1995

"Stimulant Induced Impairment"

California Association of Toxicologists, Lake Tahoe, CA, May 1996

"Drugs and Driving Toxicology"

Northwest Association of Forensic Sciences / Utah Forensic Science Association,
Salt Lake City, UT, September 1996

"Fundamentals of Medical Examiner Toxicology"

Society of Forensic Toxicology, Denver, CO, October 15, 1996

"Isoenzyme Specific Metabolism of Drugs of Forensic Interest"

Society of Forensic Toxicology, Denver, CO, October 15, 1996

**"Uppers and Downers: The Pathology, Toxicology and Clandestine Chemistry of Drug Related
Death, Disability and Drug Related Deaths in Custody"**

American Academy of Forensic Sciences, New York, NY, February 1997

"Drug Induced Diminished Capacity in Crimes of Violence"

American Academy of Forensic Sciences, New York, NY, February 1997 (chair)

"Fetal and Pediatric Pharmacology"

Society of Forensic Toxicology, Salt Lake City, UT, October 1997

"Methamphetamine: Synthesis, Pharmacology, Analysis, and Toxicology"

American Academy of Forensic Sciences, San Francisco, CA, February 1998 (chair)

"The Effects of Alcohol and Drugs on Human Performance and Behavior"

American Academy of Forensic Sciences/California Association of Toxicologists,
UCLA, CA, August 1998

"Pharmacology and Analytical Toxicology of Drugs in Saliva"

Society of Forensic Toxicology/TIAFT, Albuquerque, NM, October 1998

Continuing Professional Education (cont'd)

- "Practical Aspects of CI/MS for Drugs of Abuse"
Society of Forensic Toxicology/TIAFT, Albuquerque, NM, October 1998
- "Marijuana: a Forensic Symposium"
American Academy of Forensic Sciences, Orlando, FL, February 1999
- "Preparing for the New Millennium in the Forensic Toxicology Laboratory"
American Academy of Forensic Sciences, Orlando, FL, February 1999 (chair)
- "Breath Alcohol Testing for Forensic Purposes - Principles, Practice and Present Status"
International Association of Forensic Sciences, Los Angeles, CA, August 1999
- "The Effects of Drugs on Human Performance and Behavior"
International Association of Forensic Sciences, Los Angeles, CA, August 1999
- "Facilitator Skills Training"
Washington State Department of Personnel, Olympia, WA, June 2000
- "Graphical Display of Quantitative Information"
Workshop presented by Edward Tufte, Seattle, WA, August 2001
- "Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation"
Indiana University Center for Studies of Law in Action, Bloomington IN, December 2002
- FBI Laboratory Symposium on Forensic Toxicology
National Institute of Justice/FBI, Washington DC, August 2004
- Evidence Based Forensic Medicine (Co Chair) American Academy of Forensic Sciences, New Orleans LA, February 2005

Grants

High Performance Liquid Chromatograph with Diode Array Detection, Automated Sample Processor and computer based Data System
February 1989 - June 1990. Analytical equipment from Varian Associates, Walnut Creek, CA; Courtesy Dr. T. Sheehan

Resolution of Amphetamine and Methamphetamine Enantiomers by HPLC without Derivatization

Stafford DT, Francisco, JT, **Logan BK**.
January 1990. Acorn Grant awarded by the Forensic Sciences Foundation

Gas Phase Electrochemical Determination of Carbon Monoxide and Cyanide in Postmortem Biological Fluids and Tissues

Logan BK, Principal Investigator
October 1991. National Institute of Justice, Forensic Science Technology Program

Grants (cont'd)

Drug and Alcohol in Drivers Involved in Traffic Fatalities I: Deceased Drivers in Fatal Accidents

Logan BK, Principal Investigator

May 1992. Washington Traffic Safety Commission

Methods for the Identification and Quantitation of Drugs in Blood from Impaired Drivers

Logan BK, Principal Investigator

May 1996. Washington Traffic Safety Commission

Publications (Peer reviewed)

1. Sedation in Intensive Care: Morphine and Renal Failure.
Bion J, **Logan BK**, Newman PM, Brodie MJ, Oliver JS, Aitchison TC, Ledingham IM.
Intensive Care Medicine. 1986;12(5):359-65.
2. The measurement and interpretation of morphine in blood.
Logan BK, Oliver JS, Smith H. Forensic Science International. 1987;35(2-3):189-95.
3. A simple laboratory test for the determination of the chemical form of cocaine.
Logan BK, Nichols HS, Stafford DT. Journal of Forensic Sciences 1989; 34(3):678-81.
4. Liquid/solid extraction on diatomaceous earth for drug analysis in postmortem blood.
Logan BK, Stafford DT. Journal of Forensic Sciences. 1989; 34(3):553-64.
5. Direct analysis of anticonvulsant drugs in vitreous humour by HPLC using a column switching technique.
Logan BK, Stafford DT. Forensic Science International. 1989; 41(1-2):125-34.
6. Rapid screening for 100 basic drugs and metabolites in urine using cation exchange solid-phase extraction and HPLC with diode array detection.
Logan BK, Stafford DT, Tebbett IR, Moore CM. Journal of Analytical Toxicology. 1990;14(3):154-9.
7. The use of HPLC with diode array spectrophotometric detection in forensic drug analysis - a review.
Logan BK, Stafford DT. Crime Laboratory Digest. 1990;17(1):5-12.
8. Photodegradation of nifedipine relative to nitrendipine evaluated by liquid and gas chromatography.
Logan BK, Patrick KS. Journal of Chromatography. 1990;529(1):175-81.
9. Information resources useful in forensic toxicology.
Stafford DT, **Logan BK**. Fundamental and Applied Toxicology. 1990;15(3):411-9.
10. High performance liquid chromatography with column switching for the determination of cocaine and benzoylecgonine concentrations in vitreous humor.
Logan BK, Stafford DT. Journal of Forensic Sciences. 1990;35(6):1303-9.

Publications (Peer reviewed) (cont'd)

11. Further applications for capillary gas chromatography in routine quantitative toxicological analysis.
Phillips AM, **Logan BK**, Stafford DT. Journal of High Resolution Chromatography. 1990;13:754-8.
12. A rapid method for the determination of cocaine in brain tissue.
Browne SP, Moore CM, Scheurer J, Tebbett IR, **Logan BK**. Journal of Forensic Sciences. 1991;36(6):1662-5.
13. Case report: Identification of laudanosine, an atracurium metabolite, following a fatal drug-related shooting.
Logan BK, Case GA. Journal of Analytical Toxicology. 1993;17(2):117-9.
14. Case report: Poisonings associated with cyanide in over the counter cold medication in Washington state, 1991.
Logan BK, Howard J, Kiesel EL. Journal of Forensic Sciences. 1993; 38(2):472-476.
15. Product tampering crime: a review.
Logan BK. Journal of Forensic Sciences. 1993;38(4):918-927.
16. Case Report: Three fatal drug overdoses involving bupropion.
Friel PN, **Logan BK**, Fligner CL. Journal of Analytical Toxicology. 1993;17(7):436-438.
17. Liquid chromatography with photodiode array spectrophotometric detection in the forensic sciences.
Logan BK. Analytica Chimica Acta. 1994;288:111-22.
18. Analysis of sertraline (Zoloft®) and its major metabolite in postmortem specimens by gas and liquid chromatography.
Logan BK, Friel PN, Case GA. Journal of Analytical Toxicology. 1994;18(3):139-42.
19. The significance of morphine concentrations in the cerebrospinal fluid in morphine caused deaths.
Logan BK, Lüthi R. Journal of Forensic Sciences. 1994;39(3):699-706.
20. Isopropanol interference with breath alcohol analysis: a case report.
Logan BK, Gullberg RG, Ellenbaas JK. Journal of Forensic Sciences. 1994;39(4):1107-11.
21. Differentiation of diethyl ether/acetone and ethanol/acetonitrile solvent pairs, and other common volatiles by dual column headspace gas chromatography.
Logan BK, Case GA, Kiesel EL. Journal of Forensic Sciences. 1994; 39(6):1541-8.
22. The origin and significance of ecgonine methyl ester in blood samples.
(letter to the editor)
Logan BK and Peterson KL. Journal of Analytical Toxicology. 1994;18(2):124-5 .

Publications (Peer reviewed) (cont'd)

23. Analysis of ketorolac in postmortem blood.
Logan BK, Friel PN, Peterson KL, Predmore DB. Journal of Analytical Toxicology. 1995;19(2):61-4.
24. An evaluation of the reliability of Widmark calculations based on breath alcohol measurements.
Friel PN, **Logan BK**, Baer J. Journal of Forensic Sciences. 1995;40(1):91-4.
25. Detection of cocaine and its polar transformation products and metabolites in human urine.
Peterson KL, **Logan BK**, Christian GD. Forensic Science International. 1995;73(3):183-96.
26. Variability of ethanol absorption and breath concentrations during a large scale alcohol administration study.
Friel PN, Baer JS, **Logan BK**. Alcoholism: Clinical and Experimental Research. 1995;19(4):1055-60.
27. Unexpected amantadine intoxication in the death of a trauma patient.
Hartshorne NJ, Harruff RC, **Logan BK**. American Journal of Forensic Medicine and Pathology. 1995;16(4):340-3.
28. Gastric contamination of postmortem blood samples during blind-stick sample collection.
Logan BK, Lindholm G. American Journal of Forensic Medicine and Pathology. 1996;17(2):109-11.
29. Postmortem distribution and redistribution of morphine in man.
Logan BK, Smirnow D. Journal of Forensic Sciences. 1996;41(2):221-9.
30. Case Report: Distribution of methamphetamine in a massive fatal ingestion.
Logan BK, Weiss EL, Harruff, RC. Journal of Forensic Sciences. 1996;41(2):322-3.
31. Drug and alcohol use in fatally injured drivers in Washington state.
Logan BK, Schwilke EW. Journal of Forensic Sciences. 1996;41(3):311-16.
32. Methamphetamine and driving impairment.
Logan BK. Journal of Forensic Sciences. 1996;41(3):457-64.
33. Simple versus sophisticated models of breath alcohol exhalation profiles.
Lubkin SR, Gullberg RG, **Logan BK**, Maini PK, Murray JD. Alcohol and Alcoholism. 1996;31(1):61-7.
34. Differentiation of *Mycobacterium genevense* and *Mycobacterium simiae* by automated mycolic acid analysis with high performance liquid chromatography.
Ritter D, Carlson LC, **Logan BK**, Ramos LS, Kilburn JO, Coyle MB. Journal of Clinical Microbiology. 1996;34(8):2004-6.

Publications (Peer reviewed) (cont'd)

35. Analysis of ecgonine and other cocaine biotransformation products in postmortem whole blood by protein precipitation-extractive alkylation and GC-MS.
Smirnow D, **Logan BK**. Journal of Analytical Toxicology. 1996;20:463-7.
36. Lack of predictable site-dependent differences and time-dependent changes in postmortem concentrations of cocaine, benzoylecgonine, and cocaethylene in humans.
Logan BK, Smirnow D, Gullberg RG. Journal of Analytical Toxicology. 1997; 20(1): 23-31.
37. Sequential injection extraction for sample preparation.
Peterson KL, **Logan BK**, Christian G, Ruzicka J. An Chim Acta. 1997;337:99-106.
38. Methadone levels in breast milk.
Geraghty B, Graham E, **Logan BK** and Weiss E. Journal of Human Lactation. 1997;13(3):227-30.
39. Identification of tramadol and its metabolites in blood from drug-related deaths and drug-impaired drivers.
Goeringer KE, **Logan BK**, Christian GD. Journal of Analytical Toxicology. 1997;21(7):529-37.
40. GCMS analysis and postmortem distribution of felbamate in humans.
Friel PN, **Logan BK**, Formoso EJ. Epilepsy. 1997;10(6):283-6.
41. Cause and manner of death in fatalities involving methamphetamine.
Logan BK, Fligner CL, Haddix T. Journal of Forensic Sciences. 1998;43(1):28-34.
42. Lack of effect of tongue piercing on an evidential breath alcohol test.
Logan BK, Gullberg RG. Journal of Forensic Sciences. 1998;43(1):239-240.
43. Evaluation of the effect of asthma inhalers and nasal decongestant sprays on a breath alcohol test.
Logan BK, Distefano S, Case GA. Journal of Forensic Sciences. 1998;43(1): 197-9.
44. Ethanol content of various foods and soft drinks and their potential for interference with a breath-alcohol test.
Logan BK, Distefano S. Journal of Analytical Toxicology. 1998;22(3):181-3.
45. A patient with multiple incidences of cocaine induced seizures and corresponding blood cocaine and metabolites concentrations.
Winbery S, Blaho K, **Logan BK**, Geraci S. American Journal of Emergency Medicine. 1998;16(5):529-33.
46. Reproducibility of within-subject breath alcohol analysis.
Gullberg RG, **Logan BK**. Med Sci Law. 1998;38(2):157-62.
47. Drug concentrations in cocaine caused and related deaths.
Liou IW, **Logan BK**, Fligner CL. J Invest Med. 1999;46(1):99A-99A.

Publications (Peer reviewed) (cont'd)

48. Development of dosing guidelines for reaching selected target breath alcohol concentrations.
Friel PN, **Logan BK**, O'Malley D, Baer JS. J Stud Alcohol. 1999;60(4):555-65.
49. Detection of the novel metabolite ethylphenidate after methylphenidate overdose with alcohol coingestion.
Markowitz JS, **Logan BK**, Diamond F, Patrick KS. J Clin Psychopharmacol. 1999;19(4):362-6.
50. Alcohol content of beer and malt beverages: forensic considerations.
Logan BK, Case GA, Distefano S. Journal of Forensic Sciences. 1999;44(6):1292-5.
51. Determination of γ -hydroxybutyrate (GHB) in biological specimens by gas chromatography-mass spectrometry.
Couper FJ, **Logan BK**. Journal of Analytical Toxicology. 2000;24(1):1-7.
52. Tabulation of alcohol content of beer and malt beverages.
Case GA, Distefano S, **Logan BK**. Journal of Analytical Toxicology. 2000;24(3):202-10.
53. Carisoprodol, meprobamate and driving impairment.
Logan BK, Case GA, Gordon AM. Journal of Forensic Sciences. 2000;45(3):619-23.
54. Postmortem forensic toxicology of selective serotonin reuptake inhibitors: a review of pharmacology and report of 168 cases.
Goeringer KE, Raymon L, Christian G, **Logan BK**. Journal of Forensic Sciences. 2000;45(3):633-48.
55. Blood cocaine and metabolite concentrations, clinical findings, and outcome of patients presenting to an ED.
Blaho K, **Logan BK**, Winbery S, Park L, Schwilke E. American Journal of Emergency Medicine. 2000;18(5):593-8.
56. Cocaine metabolism in hyperthermic patients with excited delirium.
Blaho K, Winbery S, Park L, **Logan B**, Karch SB, Barker LA. Journal of Clinical Forensic Medicine. 2000;7:71-76.
57. Postmortem forensic toxicology of trazodone.
Goeringer KE, Raymon L, **Logan BK**. Journal of Forensic Sciences. 2000;45(4):850-6.
58. Endogenous ethanol 'autobrewery syndrome' as a drunk-driving defence challenge.
Logan BK, Jones AW. Medicine, Science and the Law. 2000;40(3):206-15.
59. Zolpidem and driving impairment.
Logan BK, Couper FJ. Journal of Forensic Sciences. 2001;46(1):105-110.

Publications (Peer reviewed) (cont'd)

60. GHB and driving impairment.
Couper FJ, **Logan BK**. Journal of Forensic Sciences. 2001;46(4):919-23.
61. Ecgonine is an important marker for cocaine use in inadequately preserved specimens.
Logan BK. Journal of Analytical Toxicology. 2001;25(3):219-20.
62. Amphetamines: an update on forensic issues.
Logan BK. Journal of Analytical Toxicology. 2001;25(5):400-4.
63. 3,4-Methylenedioxymethamphetamine (MDMA, Ecstasy) and driving impairment.
Logan BK, Couper FJ. Journal of Forensic Sciences. 2001;46(6):1426-33.
64. Syva Emit II drugs of abuse in urine reagents adapted to whole blood extracts.
Hughes MP, Tyler-Freer S, Friel P, **Logan BK**. American Journal of Clinical Pathology. 2001;116;278-94.
65. Methamphetamine – effects on human performance and behavior.
Logan BK. Forensic Science Review. 2002;14(1/2): 133-51.
66. Prevalence of drug use in commercial tractor-trailer drivers.
Couper FJ, Pemberton M, Jarvis A, Hughes M, **Logan BK**. Journal of Forensic Sciences. 2002;47(3):562-67.
67. 3,4 Methylenedioxymethamphetamine (Ecstasy) – effects on human performance and behavior.
Logan BK, Couper FJ. Forensic Science Review. 2003;15(1/2)
68. Alcohol, Drugs and Driving.
Logan BK, Gullberg RG. In Clarke's Isolation and Identification of Drugs
In pharmaceuticals, body fluids, and postmortem material
Third edition. Royal Pharmaceutical Society, Dec 2003.
69. Endogenous ethanol production in a child with short gut syndrome.
Logan BK, Jones AW. J Pediatric Gastroent. Nutr. 2003 Mar;36(3):419-20
70. Addicted to Driving Under the Influence – a GHB/GBL Case Report
Couper FJ, **Logan BK** J Anal Tox 2004 Sept;28:512-515
71. Suspected GHB Overdoses in the Emergency Department
Couper FJ, Thatcher JE, **Logan BK** J Anal Tox 2004(Sept);28:481-484
72. Lorazepam and Driving Impairment
Clarkson JE, Gordon AM, **Logan BK** J Anal Tox 2004 Sept);28:475-480
73. Case Report: A Death Attributed to Use of 2,4 Dinitrophenol for Weight Loss.
Miranda E, **Logan BK** J Analytical Tox In Review

Publications (Peer reviewed) (cont'd)

74. Drugs and Human Performance Fact Sheets
Couper FJ and **Logan BK** NHTSA publication
http://www.nhtsa.dot.gov/people/injury/research/job185drugs/drugs_web.pdf
75. Changing Patterns of Alcohol and Drug Use in Fatally Injured Drivers in Washington State.
Schwilke E, Dos Santos I, **Logan BK** J Forensic Sci In Review
76. Case Report: Death of an Infant involving benzocaine.
Logan BK, Gordon AM. J Forensic Sci In Review
77. An evaluation of proficiency testing in forensic breath alcohol measurement
Gullberg RG, **Logan BK** J Forensic Sci In Review

Publications (not peer reviewed)

The Routine Determination of Morphine in Postmortem Blood by HPLC with Electrochemical Detection.

Logan BK, Oliver JS and Smith H. Proceedings of the 21st annual meeting of The International Association of Forensic Toxicologists, Brighton, United Kingdom, 1984. TIAFT

Solid Phase Extraction Methods and the Use of HPLC with Electrochemical Detection in the Analysis of Morphine in Clinical Specimens.

Logan BK. Proceedings of 1985. Advanced Analytical Techniques symposium, Association of Clinical Biochemistry, Glasgow, 1985. ACB

Cyanide Poisonings Associated with Over the Counter Cold Medication - Washington State, 1991.

Howard J, Pouw TH, Arnold J, **Logan B**, Kobayashi J, Davis J. Morbidity and Mortality Weekly Report. 1991;40(10):161-8.

In-line Solid Phase Sample Preparation for the Analysis of Drugs in Postmortem Fluids by High Performance Liquid Chromatography.

Logan BK and Stafford DT. Forensic Toxicology: Proceedings of 26th Annual Meeting of The International Association of Forensic Toxicologists, Glasgow, United Kingdom, August 1989. Ed. J.S. Oliver. Aberdeen University Press, 1992

The Use of Gas Chromatography for the Determination of Ethyl Alcohol and Other Volatiles in Biological Materials.

Logan BK. in "Gas Chromatography in Forensic Science" Ellis Horwood Series in Forensic Sciences. Ellis Horwood, Sydney, Australia. Ed. I.R. Tebbett, 1992.

Effects of Toluene Exposure on the DataMaster.

Logan BK. IACT Newsletter. 1994; 5(3):14-5.

Gas Chromatography – Applications: Clinical and Toxicological Analysis.

Logan BK. Encyclopedia of Analytical Science, Ed. A. Townsend, Academic Press, London, 1995

Publications (Not peer reviewed) (cont'd)

Common DUI defense challenges.

Jones AW and **Logan BK**. Handbook of Drug Abuse. CRC Press. S. Karch, Editor, 1998.

Review of *Drugs and Death: Profiles of Illegal Drug Abuse*.

Logan BK. Journal of Forensic Sciences. 2000;45(5);1176.

Review of *Criminal Poisoning: Investigational Guide for Law Enforcement, Toxicologists, Forensic Scientists, and Attorneys*.

Logan BK. Journal of Forensic Sciences 2000; 45(5); 1177

Tabulated data on alcohol content of 400 beers.

Case GA, **Logan BK**. IACT Newsletter 1998

Review of *Drug Effects on Psychomotor Performance*.

Logan BK. Journal of Forensic Sciences. 2001;46(3):766.

Review of *Experimental and Clinical Toxicology*.

Logan BK. Journal of Forensic Sciences. 2001;46(3):767.

Review of *Benzodiazepines and GHB Detection and Pharmacology*.

Logan BK. Journal of Forensic Sciences. 2002

Review of *Drug-Facilitated Sexual Assault: A Forensic Handbook*

Logan BK. Journal of Forensic Sciences. 2003 (in press)

Robert F. Borkenstein - Obituary

Logan BK. Journal of Forensic Sciences. 2003;48(3):1-2

Cocaine, methamphetamine and driving

Logan BK, Isenschmid DS in Medico-Legal Aspects of Drugs M Burns (ed), Lawyers and Judges Publishing Co., Inc., Tucson AZ, 2003

Review of *Dreisbach's Handbook of Poisoning*

Logan, BK Journal of Forensic Sciences. 2004;49(4)

Review of *Advances in Forensic Mass Spectrometry*

Logan, BK Journal of Forensic Sciences. in press

Presentations (* = invited presentation)

1. The Routine Determination of Morphine in Postmortem Blood by HPLC with Electrochemical Detection.
Logan BK, Oliver JS and Smith H. 21st Annual meeting of The International Association of Forensic Toxicologists, Brighton, United Kingdom, March 1984

Presentations (cont'd)

2. The Detection of Local Anaesthetics Used as Doping Agents in Greyhound Racing.
Logan BK, Oliver JS and Smith H. 22nd Annual meeting of The International Association of Forensic Toxicologists, Rigi-Kaltbaad, Switzerland, March 1985
3. The Identification of THC, Cannabinol and Cannabidiol in Questioned Material by HPLC with Electrochemical Detection.
Logan BK, Oliver JS and Smith H. 22nd annual meeting of The International Association of Forensic Toxicologists, Rigi, Switzerland, March 1985
4. Solid Phase Extraction of a Range of Drugs from Postmortem Blood.
Logan BK, Stafford DT. 40th Annual Meeting of the American Academy of Forensic Sciences, Philadelphia, PA, USA, February 1988
5. Increasing the Resolving Power of HPLC through Complementary Analysis and Selective Detection.
Logan BK, Stafford DT. 39th annual Pittsburgh Conference, New Orleans, LA, February 1988
6. Some Experiences with Solid Phase Extraction Techniques in Postmortem Drug Analysis.
Logan BK. Southern Association of Forensic Scientists - Spring Meeting, Memphis, TN, USA, May 5-7, 1988
7. Determination of Vitreous Cocaine and Benzoylcegonine Concentrations Using HPLC with Column Switching.
Logan BK, Stafford DT, 41st meeting of the American Academy of Forensic Sciences, Las Vegas, NV, February 1989
8. Selection of Sample Preparation Techniques in Forensic Toxicology.
Logan BK, Stafford DT, 41st meeting of the American Academy of Forensic Sciences, Las Vegas, NV, February 1989
9. A Comparison of Three Solid Phase Extraction Methods for Sample Preparation Prior to HPLC and GC in Forensic Toxicology.
Logan BK, Stafford DT. 40th annual Pittsburgh Conference, Atlanta, GA, March 1989
10. In-line Solid Phase Sample Preparation for the Analysis of Drugs in Postmortem Fluids by High Performance Liquid Chromatography.
Logan BK, Stafford DT. 26th annual meeting of The International Association of Forensic Toxicologists, Glasgow, United Kingdom, August 1989
- 11.* I) Principles of Solid Phase Extraction and its Application in Forensic Toxicology
II) Automating Solid Phase Extraction Procedures
Logan BK. Two Day Solid Phase Extraction Workshop for the Illinois State Police Crime Laboratory Service, organized by Department of Pharmacy, University of Illinois, December 7-8, 1989

Presentations (cont'd)

12. An Integrated Approach for the Identification of Cocaine in Street Drugs.
Logan BK, Nichols HS, Stafford DT. 42nd Annual meeting of the American Academy of Forensic Sciences, Cincinnati, OH, February 1990
13. A Robust Solid Phase Extraction Method for Basic Drugs and Metabolites in Postmortem Blood.
Logan BK, Stafford DT. 42nd Annual meeting of the American Academy of Forensic Sciences, Cincinnati, OH, February 1990
14. The Use of HPLC with Diode Array Spectrophotometric Detection in the Forensic Drug Laboratory
Logan BK, Nichols HS, Fernandez GS, Phillips AM and Stafford DT. 42nd Annual meeting of the American Academy of Forensic Sciences, Cincinnati, OH, February 1990
15. Analysis of Drugs in Postmortem Biofluids Using an In-Line Sample Preparation Device (AASP).
Logan BK, Stafford DT. 41st Pittsburgh Conference, New York, NY, March 1990
- 16.* The Use of Horizontal Gaze Nystagmus in DWI Arrests
Logan BK. United States Health Service. "None for the Road", Indian Health Service Program, Spokane, WA, August 1991
- 17.* The Breath Test: Changes in the State's Program and the WAC.
in "Defending DWI's - Winning Strategies for the Nineties"
Logan BK. Continuing Legal Education Program, University of Washington, April 1991
18. Prosecuting DWI's in Washington State - Use of Expert Testimony
Logan BK and others.
Continuing Legal Education seminar series. 1991, 1992, 1993, 1994, 1995, 1996, 1997
- 19.* Washington Administrative Code Provisions for Breath Alcohol Testing
Logan BK. Continuing Legal Education Program Pierce Co. Bar Assn. May 1991
20. Liquid/Liquid vs. Solid Phase Extraction for the Isolation of 11-Nor-Delta-9-Tetrahydrocannabinol-9-Carboxylic Acid from Alkaline Hydrolyzed Urine.
Logan BK. 44th Annual meeting of the American Academy of Forensic Sciences, New Orleans, LA, February 1992
21. Changes in the Illegal Drug Market in Memphis TN 1979-1989
Logan BK, Nichols HS, and Stafford DT. 44th Annual meeting of the American Academy of Forensic Sciences, New Orleans, LA, February 1992
22. Cyanide in Sudafed 12-Hour Cold Capsules in Washington State 1991
Logan BK, Howard J, Kiesel E. 44th Annual meeting of the American Academy of Forensic Sciences, New Orleans, LA, February 1992
23. State Toxicology and Death Investigation
Logan BK. University of Washington, Continuing Medical Education, Seattle, WA, March 1992

Presentations (cont'd)

24. A Comparison of Two Solid Phase Extraction Methods for Acid Neutral Drugs in Postmortem Blood
Formoso E, **Logan BK**. Northwest Association of Forensic Sciences, Reno, NV, May 1992
25. Estimation of BAC and Time to Peak BAC in Drinkers Following the Rapid Consumption of Alcohol
Predmore D, **Logan BK**. Northwest Association of Forensic Sciences, Reno, NV, May 1992
26. Role of Chemical Tests for Alcohol in DWI Prosecutions
Logan BK. Washington Association of Prosecuting Attorneys, District Court Training, Burien, WA, June 1992
27. Drugs, Poisons and Chemical Analysis
Logan BK. University of Washington Extension Program, "Forensic Investigation," Seattle, WA, October 1992
28. Forensic Toxicology
Logan BK. University of Washington Extension Program, "Forensic Investigation," Seattle, WA, October 1992
29. Analytical and Postmortem Forensic Toxicology of Bupropion and Sertraline, Two New Non-Tricyclic Antidepressants.
Logan BK. Department of Laboratory Medicine, University of Washington, Chemistry Research Conference, May 19, 1992
30. Identification of "Mycobacterium genavense" by Analysis of Mycolic Acids and Whole-Cell Fatty Acids
Ritter D, Carlson LC, Kilburn JO, **Logan BK**, Coyle MB. 93rd General Meeting of American Society of Microbiology, Atlanta, GA, May 1993
31. Detection and Characterization of Sertraline (Zoloft®) in a Suicidal Hanging
Logan BK, Case GA. 45th Annual meeting of the American Academy of Forensic Sciences, Boston, MA, February 1993
32. Three Fatal Drug Overdoses Involving Bupropion (Wellbutrin®)
Logan BK, Friel PN, Fligner CL, Schnell S. 45th Annual meeting of the American Academy of Forensic Sciences, Boston, MA, February 1993
33. Evaluation of Methods for the Analysis of Drugs in Cerebrospinal Fluid (CSF) in Postmortem Forensic Toxicology.
Lüthi R, **Logan BK**. 45th Annual meeting of the American Academy of Forensic Sciences, Boston, MA, February 1993
- 34.* Advantages of a Comprehensive Approach in Postmortem Toxicology
Logan BK. Society of Forensic Toxicologists/California Association of Toxicologists, 1993, Joint Meeting, Phoenix, AZ, October 12, 1993

Presentations (cont'd)

- 35.* Detection of Drugs in Fatally Injured Drivers in Washington State, 1992-1993.
Logan BK. Washington Traffic Safety Conference, Tumwater, WA, December 7, 1993
36. Measuring Carbon Monoxide and Cyanide in Postmortem Blood and Tissue Using a Gas Phase Electrochemical Technique
Logan BK. 46th Annual meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 1994
37. Diethyl Ether Misidentified as Acetone by Headspace Gas Chromatography.
Logan BK, Case GA, Kiesel EL. 46th Annual meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 1994
38. Ethanol Absorption During Stress
Logan BK, Friel PN, Baer JS. 46th Annual meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 1994
39. Analysis of Polar Cocaine Metabolites in Urine and Spinal Fluid
Peterson KL, **Logan BK**, Christian GD, Ruzicka J. 46th Annual meeting of the American Academy of Forensic Sciences, San Antonio, TX, February 1994
40. Effects of Stress on Pharmacokinetics of Ethanol in a Laboratory Environment
Logan BK, Friel PN, Baer JS. 7th Annual meeting of the International Association of Chemical Testing, Denver, CO, April 1994
- 41.* Forensic Aspects of Breath Alcohol Measurement
Logan BK, Gullberg RG. Department of Environmental Health seminar series, University of Washington, June 2, 1994
- 42.* The Use of Toxicology Testing in Felony Prosecutions
Logan BK. Washington Association of Prosecuting Attorneys, spring training, Chelan, WA, June 24, 1994
- 43.* The Death Investigations System in Washington State
Reay D, **Logan BK** Orientation for newly elected officials, Washington Association of Counties and Washington Association of County Officials, Tumwater, WA, November 30, 1994
- 44.* Sample Collection Procedures for Death Investigation Toxicology
Logan BK. Washington Association of Coroners and Medical Examiners, Winter Training, Tumwater, WA, November 28, 1994
- 45.* Drugs and Driving
Logan BK. Workshop for Washington Traffic Safety Commission, Alcohol and Traffic Safety Conference, Tumwater, WA, December 6, 1994
- 46.* Washington's Breath Alcohol Testing Program - Past and Future
Logan BK. Washington Traffic Safety Commission, Alcohol and Traffic Safety Conference, Tumwater, WA, December 7, 1994

Presentations (cont'd)

47. Use of a Statewide Database in the Management of a Forensic Breath Alcohol Test Program: A Seven Year Perspective.
Distefano S, Speck P, Gullberg RG, **Logan BK**, American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 1995
48. Evaluation of the Ability of the BAC Verifier DataMaster to Distinguish Ethanol from Other Organic Solvents.
Case GA, Distefano S, **Logan BK**, American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 1995
49. Drug and Alcohol Use in Fatally Injured Drivers in Washington State.
Schwilke EW, **Logan BK**, American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 1995
50. Postmortem Concentrations of Sertraline and Norsertraline
Marker EK, Levine A, Kirk S, Stajic M, **Logan BK**, American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 1995
51. Two Fatalities Associated with Amantadine Overdose
Lüthi R, **Logan BK**, Predmore D, Friel P, Hartshorne N, Harruff RC, Fligner CL, Schmunk G. American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 1995
52. GC/MS Analysis of Felbamate, a New Antiepileptic Drug in Postmortem Specimens
Friel PN, Formoso E, **Logan BK**. American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 1995
- 53.* Sudafed Product Tampering
Logan BK. Multidisciplinary Symposium, American Academy of Forensic Sciences, 47th Annual Meeting, Seattle, WA, February 1995
54. Applying Confidence Intervals to Results of Breath Alcohol Analyses
Bosman RA, **Logan BK**, Gullberg RG, 8th Annual meeting of the International Association of Chemical Testing, Milwaukee, WI, April 1995
55. Cocaine Metabolite Extraction from Whole Blood and Sequential Derivatization and Detection by GC/MS
Smirnow D, **Logan BK**, Academy of Clinical Laboratory Physicians and Scientists meeting, Syracuse, NY, June 1995
56. Postmortem Distribution and Redistribution of Morphine in Acute Drug Overdose Deaths
Smirnow D, **Logan BK**, Academy of Clinical Laboratory Physicians and Scientists meeting, Syracuse, NY, June 1995
57. Sequential Injection Extraction
Peterson KL, **Logan BK**, Ruzika J. Association of Official Analytical Chemists, Olympia, WA, July 1995

Presentations (cont'd)

58. Sequential Injection Extraction Techniques for the Analysis of Drugs in Human Urine
Peterson KL, **Logan BK**, Christian G, Federation of Analytical Chemistry and Spectroscopy Societies, Cincinnati, OH, October 24, 1995
59. Time Dependant Changes and Site Dependant Differences in Postmortem Morphine Concentration in Man
Logan BK, Smirnow D, Society of Forensic Toxicology 25th Annual Meeting, Baltimore, MD, October 1995
60. Sequential Derivatization, Extraction and Analysis of Polar Cocaine Metabolites in Postmortem Blood
Logan BK, Smirnow D, Society of Forensic Toxicology, 25th Annual Meeting, Baltimore, MD, October 1995
- 61.* Methods for the Analysis of Barbiturates
Logan BK. United Nations Drug Control Program, Consultative Meeting on the Detection and Assay of Benzodiazepines and Barbiturates in Biological Fluids, Kowloon, Hong Kong, November 13-17, 1995
- 62.* Postmortem Distribution of Morphine in Man.
Logan BK. Heroin Redux. Workshop presentation for the American Academy of Forensic Science 48th Annual Meeting, Nashville, TN, February 1996
- 63.* Sudafed Product Tampering
Logan BK. Multidisciplinary Symposium, American Academy of Forensic Science 48th Annual Meeting, Nashville, TN, February 1996
64. Time Dependant Changes and Site Dependant Differences in Postmortem Concentration of Cocaine, Benzoyl Ecgonine and Cocaethylene in Man
Logan BK, Smirnow D, American Academy of Forensic Science 48th Annual Meeting, Nashville, TN, February 1996
65. Sequential Injection Extraction of Weakly Acidic and Basic Drug from Urine
Peterson KL, **Logan BK**, Christian GD, and Ruzicka J. American Academy of Forensic Science 48th Annual Meeting, Nashville, TN, February 1996
- 66.* Forensic Toxicology in Product Tampering Investigations
Logan BK. Rosenblatt Guest Lecture, The Barnett Institute, Northeastern University, Boston, MA, February 1996
- 67.* Site Dependant Differences and Time Dependant Changes in Postmortem Drug Concentrations.
Logan BK. Rosenblatt Guest Lecture, The Barnett Institute, Northeastern University, Boston, MA, February 1996
- 68.* Toxicology Testing in Drug Recognition Expert Programs
Logan BK. National Highway Traffic Safety Administration, Prosecutor Training, Tumwater, WA, February 1996

Presentations (cont'd)

- 69.* Drug Recognition Expert programs
Logan BK. Washington State Association of District and Municipal Court Judges - Legislative and Licensing Committees, SeaTac, WA, April 1996
70. Methamphetamine and Driving Impairment
Logan BK. Stimulant Impaired Driving Workshop, California Association of Toxicologists, 1996 Spring Meeting, North Lake Tahoe, CA, May 4, 1996
- 71.* Recent Experience with Methamphetamine in Washington State
Logan BK. Postdoctoral lecture series in criminal psychology, Washington State Hospital, Steilacoom, WA, June 1996
- 72.* Interpretive Toxicology
Logan BK. Death Investigation Seminar, Washington Criminal Justice Training Commission, Burien, WA, July 1996
73. Further Validation of Widmark Calculations Based on Breath Alcohol Concentrations
Friel PN, O'Malley D, **Logan BK**, Baer JS Northwest Association of Forensic Sciences meeting, Salt Lake City, UT, October 1996
74. Evaluation of a Method That Isolates and Quantitates Ecgonine and Other Metabolites in Whole Blood.
Schwilke ES, **Logan BK**, Blaho KE, Mandrell TD Northwest Association of Forensic Sciences meeting, Salt Lake City, UT, October 1996
75. Determination of Tramadol and its Metabolites in Postmortem Blood
Goeringer KE, **Logan BK** Society of Forensic Toxicology, Denver, CO, October 1996
76. Clinical Manifestations of Acute Cocaine Intoxication and Corresponding Levels from Patients Evaluated in an Inner City Emergency Department.
Merigian K, Blaho K, **Logan BK**, Winberry S, Geraci, S. Society of Forensic Toxicology, Denver, CO, October 1996
77. Chest Pain Associated with Cocaine Intoxication: Case Reports with Corresponding Drug Levels.
Geraci S, Blaho K, **Logan BK**, Merigian K, Winberry S Society of Forensic Toxicology, Denver, CO, October 1996
78. Characterization of a Model for Acute Cocaine Intoxication in Conscious Pigs.
Blaho K, Mandrell T, Labranche G, Merigian K, Geraci S, Winberry S, **Logan BK** Society of Forensic Toxicology, Denver, CO, October 1996
- 79.* Fundamentals of Medical Examiner Toxicology: Heroin and Cocaine
Logan BK. Workshop presentation, Society of Forensic Toxicology, Denver, CO, October 1996

Presentations (cont'd)

80. Case Reports of Cocaine Induced Chest Pain: Correlation Between Clinical Findings and Blood Concentrations?
Geraci S, Blaho K, Winbery S, **Logan BK**, Merigian K. American Society of Clinical Pharmacology and Therapeutics, St. Louis, MO, March 1997
81. Cocaine Blood Concentrations and Clinical Symptoms in Thirty Sequential Patients Evaluated in an Inner City Emergency Department. Winbery S, Blaho K, **Logan BK**, Merigian K, Geraci S. American Society of Clinical Pharmacology and Therapeutics, St. Louis, MO, March 1997
82. A Novel Animal Model for Cocaine Intoxication.
Blaho K, Mandrell T, Labranche G, Winbery S, Merigian K, **Logan BK**, Geraci S. American Society of Clinical Pharmacology and Therapeutics, St. Louis, MO, March 1997
83. Drug Induced Diminished Capacity in Crimes of Violence
Logan BK. Workshop Chair and moderator, American Academy of Forensic Sciences, 49th annual meeting, New York, NY, February 1997
- 84.* Considerations in the Interpretation of Postmortem Drug Concentrations
Logan BK. American Academy of Forensic Sciences, 49th Annual meeting, New York, NY, February 1997
- 85.* Role of the Forensic Toxicologist in the Investigation of Terrorism and Mass Disaster.
Logan BK. American Academy of Forensic Sciences, 49th Annual meeting, New York, NY, February 1997
86. Methamphetamine Fatalities in Washington State 1993-95: Cause and Manner of Death in Fatalities Involving Methamphetamine.
Logan BK, Fligner CL, Haddix T. American Academy of Forensic Sciences, 49th Annual meeting, New York, NY, February 1997
- 87.* How Alcohol Affects the Body, Mind and Behavior
Logan BK. Oregon Annual DUII conference, Beaverton, OR, April 18, 1997
- 88.* Methamphetamine and Violence
Logan BK. Washington Association of Prosecuting Attorneys, Criminal Track training, Tumwater, WA, April 24, 1997
- 89.* Drug and Alcohol Testing Related to DUI
Logan BK. CLE seminar, Associated Council for the Accused, Seattle, WA, May 13, 1997
- 90.* Cause and Manner of Death Associated with Methamphetamine Use
Logan BK. Clark County Medical Examiners Office, Mini-symposium on Drug Related Deaths, Vancouver, WA, June 9, 1997

Presentations (cont'd)

- 91.* Meeting Continuing Challenges in the Practice of Forensic Toxicology
Logan BK, Plenary Lecture, 35th Annual meeting International Association of Forensic Toxicologists, Padova, Italy, August 1997
92. Methamphetamine and Driving Impairment
Logan BK. 35th Annual meeting of The International Association of Forensic Toxicologists, Padova, Italy, August 1997
93. The Cause of the Increased Heroin Fatality Rate in Seattle
Li M, Raven K, Harruff R, **Logan, BK** National Association of Medical Examiners
Baltimore, MD, September 1997
94. Clinical Findings and Drug Kinetics in Two Cases of Catastrophic Reactions to Cocaine
Blaho K, **Logan BK**, Winbery S, Park L, Geraci, S. Society of Forensic Toxicologists,
Salt Lake City, UT, October 1997
95. Postmortem Forensic Toxicology of Trazodone in Man
Goeringer K, **Logan BK**. Society of Forensic Toxicologists, Salt Lake City, UT,
October 1997
96. Review of Postmortem Toxicology in Twenty Deaths Involving Sertraline
Goeringer K, **Logan BK**. Society of Forensic Toxicologists, Salt Lake City, UT,
October 1997
97. Tricyclic Antidepressant Concentrations in Overdose Patients Presenting in an Inner City
Emergency Department.
Winbery S, **Logan BK**, Blaho K. Society of Forensic Toxicologists, Salt Lake City, UT,
October 1997
98. Ante/Postmortem Kinetics of Cocaine in Juvenile Swine
Logan BK, Blaho K, Schwilke G, Mandrell T. Society of Forensic Toxicologists,
Salt Lake City, UT, October 1997
99. PC Based Assessment of Alcohol Related Impairment with Synwork1
Friel PN, O'Malley D, Baer JS, **Logan BK** CAT/NWAFS/SWAFS/SAT meeting,
Las Vegas, NV, November 1997
100. Beer and its Forensic Implications
Case GA, **Logan BK**, CAT/NWAFS/SWAFS/SAT meeting, Las Vegas, NV,
November 1997
101. Concentrations of Cocaine and Metabolites in a Drug Abusing Population
Logan BK, Blaho K, Winbery S, Geraci SA 5th International Congress of Therapeutic
Drug Monitoring and Clinical Toxicology, Vancouver, BC, Canada, November 1997
- 102.* Speed Kills; The Downside of Methamphetamine Use in Drivers.
Logan BK. Washington Traffic Safety Commission, Impaired Driver Conference,
Fife, WA, December 1997

Presentations (cont'd)

103. Methamphetamine and Driving.
in Methamphetamine: Synthesis, Pharmacology, Analysis, and Toxicology
Logan BK. American Academy of Forensic Sciences, San Francisco, CA,
February 1998
104. Effects of Death and Decomposition on Concentrations of Cocaine and Metabolites in Juvenile Swine.
Logan BK, Blaho B, Mandrell T, Berryman H, Goff ML , Goldberger BA , Schwilke S, Roper-Miller J, American Academy of Forensic Sciences, San Francisco, CA,
February 1998
- 105.* Considerations When Trying to Determine the Role Cocaine May Have Played in a Death.
Logan BK. California Association of Toxicologists, San Francisco, CA, February 1998
106. Chest Pain and Cocaine Concentrations
Geraci S, Blaho K, **Logan BK,** Winbery S, American Society of Clinical Pharmacology and Therapeutics, New Orleans, LA, March 1998
107. Clinical Manifestations of Cocaine and Five Metabolites in A drug Abusing Population
Blaho K, **Logan BK,** Winbery S, Geraci S, American Society of Clinical Pharmacology and Therapeutics, New Orleans, LA, March 1998
108. Lack of Correlation Between Clinical Symptoms, Treatment Modalities, and Cocaine Blood Concentrations.
Blaho K, Winbery S, **Logan BK,** Geraci S, American Society of Clinical Pharmacology and Therapeutics, New Orleans, LA, March 1998
109. Cocaine Metabolite Levels Fail to Correlate with EKG Symptoms or Changes
Geraci S, Blaho K, Winbery S, **Logan BK** American Society of Clinical Pharmacology and Therapeutics, New Orleans, LA, March 1998
110. Ocular Findings in Cocaine Abusing Patients Presenting to an Inner City Emergency Department.
Blaho K, Winbery S, Park L, **Logan BK**
Association for Research in Vision and Ophthalmology, Lauderdale, FL, May 1998
111. Alcohol Content of Beer and Malt Beverages - Forensic Considerations
Case GA, **Logan BK** International Association for Chemical Testing, Las Vegas, NV,
April 1998
- 112.* Legal Issues Associated with Drug Use, Drug Abuse and Drug Testing
Logan BK. Postgraduate Seminar Series, The Washington Institute, Washington State Hospital, Steilacoom, WA, May 1998
- 113.* Medico Legal Intoxication - A Growing Problem
Logan BK. Postgraduate Seminar Series, The Washington Institute, Washington State Hospital, Steilacoom, WA May 1998

Presentations (cont'd)

- 114.* The Downside of Methamphetamine.
Logan BK. International Association of Chiefs of Police, DRE Training Conference, Portland, OR, June 1998
- 115.* Pharmacology of Methamphetamine and its Relationship to Human Behavior Impairment
Logan BK. The Effects of Alcohol and Drugs on Human Performance and Behavior, American Academy of Forensic Sciences/California Association of Toxicologists, UCLA, CA, August 1998
116. Death of an Infant Involving Benzocaine
Gordon A M, **Logan BK.** Society of Forensic Toxicology/TIAFT, Albuquerque, NM, October 1998
117. Cocaine Half Lives in Drug Abusing Patients Presenting to an Inner City Emergency Department
Blaho K, Winbery S, **Logan BK,** Park LJ, Karch SA. Society of Forensic Toxicology/TIAFT, Albuquerque, NM, October 1998
118. Lessons Learned from an Unexplained Hospital Death
Blaho K, Winbery S, Park LJ, Karch SA, **Logan BK,** Gunther W
Society of Forensic Toxicology/TIAFT, Albuquerque, NM, October 1998
- 119.* The Drugged Driver: Science, Detection and the Law
Moczula B, **Logan BK,** Page T 1998 National Safety Council Congress and Exposition Los Angeles, CA, October 1998
120. Statistical analysis of duplicate blood alcohol data from a forensic toxicology laboratory.
Gullberg RG, **Logan BK** American Academy of Forensic Sciences, Orlando, FL, February 1999
121. Comparison of DRE opinion and toxicology results in 204 consecutive cases.
Schwilke GS, **Logan BK** American Academy of Forensic Sciences, Orlando, FL, February 1999
122. Carisoprodol (Soma®), Meprobamate (Miltown®, Equanil®) and driving impairment.
Logan BK, Case GA American Academy of Forensic Sciences, Orlando, FL, February 1999
- 123.* Common DUI defense challenges.
in Breath Alcohol Testing for Forensic Purposes - Principles, Practice and Present Status. AW Jones, Chair. **Logan BK.** International Association of Forensic Sciences. 15th Triennial meeting, University of California, Los Angeles, CA, August 1999
- 124.* Stimulants and their effects on human performance and behavior.
in The Effects of Drugs on Human Performance and Behavior. V Spiehler, Chair. **Logan BK.** International Association of Forensic Sciences. 15th Triennial meeting, University of California, Los Angeles, CA, August 1999

Presentations (cont'd)

125. Determination of GHB in Clinical and Postmortem Specimens.
Couper FJ, **Logan BK** Society of Forensic Toxicologists, Puerto Rico, October 1999
126. Pharmacological Facilitation of Robbery: Analysis of Two Cases from the Emergency Department
Blaho KE, Park LJ, **Logan, BK**, Winbery SL Society of Forensic Toxicologists, Puerto Rico, October 1999
127. CNS Catastrophes Presenting as a Common Adverse Event to Acute Cocaine Abuse
Winbery SL, Blaho KE, **Logan BK**, Schwilke EW, Karch SB Society of Forensic Toxicologists, Puerto Rico, October 1999
128. Carisoprodol (Soma®), Meprobamate (Miltown®, Equanil®) in Driving Impaired Cases
Logan BK, Walls HC, Marinetti L Society of Forensic Toxicologists, Puerto Rico, October 1999
- 129.* Meth, Mothers Milk, and Murder
Logan BK. American Academy of Forensic Sciences Annual Meeting, 52nd Annual meeting, Reno, NV, February 2000
130. Zolpidem and Driving Impairment
Logan BK, and Couper FJ American Academy of Forensic Sciences Annual Meeting, 52nd Annual meeting, Reno, NV, February 2000
131. Determination of Drug Use in Tractor Trailer Drivers: "Operation Trucker Check"
Couper FJ, Jarvis A, **Logan BK** American Academy of Forensic Sciences Annual Meeting, 52nd Annual meeting, Reno, NV, February 2000
132. Proficiency Test Results Among Several Forensic Breath Alcohol Test Instruments
Case G, **Logan BK**, Gullberg R International Association for Chemical Testing, Halifax, Nova Scotia, April 2000
133. Carisoprodol (Soma®), Meprobamate (Miltown®, Equanil®) and Driving Impairment
Logan BK. International Consultative Meeting on Drugs and Driving Impairment, Seattle, WA, August 2000
134. Methamphetamine and Driving Impairment
Logan BK. International Consultative Meeting on Drugs and Driving Impairment, Seattle, WA, August 2000
- 135* Amphetamines: An Update
Logan BK. Society of Forensic Toxicologists, Milwaukee, WI, October 2000
136. Driving Under The Influence of GHB
Couper F, **Logan BK** Society of Forensic Toxicologists, Milwaukee, WI, October 2000
137. Cocaine and Metabolite Concentrations After Swallowing Illicit Cocaine
Logan BK, Blaho K, Winbery S, Schwilke EW, Harruff R Society of Forensic Toxicologists, Milwaukee, WI, October 2000

Presentations (cont'd)

138. Detection of Nefazodone (Serzone) in Whole Blood by Gas Chromatography/Mass Spectrometry
Schwilke EW, Friel PN, **Logan BK**. Society of Forensic Toxicologists, Milwaukee, WI, October 2000
139. Cardiomyopathy in Young Cocaine Abusing Patients Presenting to an Inner City Emergency Department
Winbery S, Blaho K, Park L, **Logan BK**, Karch S Society of Forensic Toxicologists, Milwaukee, WI, October 2000
- 140.* Amphetamines: An Update
Logan BK. Northwest Association of Forensic Scientists, Seattle, WA, October 2000
- 141.* DUID in Washington: Challenges and Strategies
Logan BK. Washington Traffic Safety Conference, Olympia, WA, December 2000
142. Case Reports of Drivers Impaired by MDMA
Logan BK. American Academy of Forensic Sciences, Seattle, WA, February 2001
143. Drugs, Driving, and Human Performance Testing
Logan BK. American Academy of Forensic Sciences, Seattle, WA, February 2001
144. The Tragedy of Hate Crime and the Response of the Forensic Sciences
Logan BK. American Academy of Forensic Sciences, Seattle, WA, February 2001 (chair)
- 145.* Assessing Challenges to Blood and Breath Alcohol Tests
Logan BK. Los Angeles Superior Court Judicial DUI Seminar, Oxnard, CA, March 2001
- 146.* Drugs and Driving
Logan BK. California Association of Toxicologists, Berkeley, CA, August 2001
- 147.* Clinical Pharmacology and Analytical Toxicology of Amphetamines
Logan BK. International Congress of Therapeutic Drug Monitoring & Clinical Toxicology, Washington DC, September 2001
148. Methamphetamine and Driving Impairment Revisited
Logan BK. Society of Forensic Toxicologists, New Orleans, LA, October 2001
149. Methadone Findings in Drivers and Post Mortem Cases in Washington State
Gordon A, Friel P, **Logan BK**. Society of Forensic Toxicologists, New Orleans, LA, October 2001
150. Addicted to DUI – a GHB/GBL Case Report
Couper F, **Logan BK** Society of Forensic Toxicologists, New Orleans, LA, October 2001

Presentations (cont'd)

151. Issues Related to Simulator Solution Temperature Measurement in a Breath Alcohol Simulator
Logan BK, Gullberg RG American Academy of Forensic Sciences, Atlanta, GA, February 2002
152. CNS stimulants impair driving, but blood concentrations do not predict specific effects
Logan BK. American Academy of Forensic Sciences, Atlanta, GA, February 2002
- 153.* The Professional Practice of Forensic Toxicology - 2002
Logan BK. American Academy of Forensic Sciences, Atlanta, GA, February 2002
- 154.* MDMA and Methamphetamine
Logan BK, and Raymon L. Society of Forensic Toxicologists, Dearborn, MI, October 2002
155. Reported death by ingestion of 2,4-dinitrophenol.
Miranda EJ, **Logan BK**. Society of Forensic Toxicologists, Dearborn, MI, October 2002
156. Significance of cyclobenzaprine in death investigation and impaired driving cases in Washington State.
Gordon AM, **Logan BK**. Society of Forensic Toxicologists, Dearborn, MI, October 2002
157. The Toxicological Significance of Tramadol in Death Investigation and Impaired Driving Cases.
Thatcher JE, Lacey M, Fligner CL, Thiersch N, Howard J, **Logan BK**, American Academy of Forensic Sciences, Chicago, IL, February 2003
158. Methamphetamine in Fetal and Infant Deaths in Washington State
Gordon AM and **Logan BK** American Academy of Forensic Sciences, Chicago, IL, February 2003
- 159.* Forensic Toxicology of Methamphetamine
Logan BK Public Defenders Association CLE, Gonzaga University Law School, Spokane, WA, and Tacoma, WA, March 2003
- 160.* Drugs and Driving: "What BAC Is That Equivalent To?" and Other Unlikely Questions.
Logan BK California Association of Toxicologists, Albuquerque, NM, May 2003
- 161.* Drugs and Driving: What Does the Future Hold for Washington?
Logan BK Washington Drug Recognition Program Regional Representatives Meeting, Leavenworth, WA, May 2003
- 162.* CNS stimulants impair driving, but blood concentrations do not predict specific effects.
Logan BK IACP Western Regional Drug Recognition Expert Conference, Vancouver, WA, September 2003

Presentations (cont'd)

- 163.* Methamphetamine: Forensic Science in Washington Meeting the Challenge
Logan BK, Gordon AM Governors Methamphetamine Coordinating Committee
Methamphetamine Summit, Vancouver, WA September 2003
- 164.* DUID Toxicology: Progress and Future Directions
Logan BK NSC/SOFT/AAFS workgroup on per se drug impaired driving legislation.
Portland, OR October 2003
165. A Short Series of Deaths Involving MDMA
Logan BK, Luthi R, Gordon AM Society of Forensic Toxicologists Annual Meeting,
Portland, OR, October 2003
166. The Presence of N-Methyl-1-(1-(1,4 cyclohexadienyl))-2-propanamine, a Birch
Reduction Product, in Methamphetamine Positive Toxicology Samples.
Marshall WP and **Logan BK** Society of Forensic Toxicologists Annual Meeting,
Portland, OR, October 2003
167. Driver Behavior, Responses and Performance with Blood Alcohol Concentration (BAC)
greater than 0.30g/100mL.
Pemberton ML, **Logan BK** Society of Forensic Toxicologists Annual Meeting, Portland,
OR, October 2003
168. Changes in Patterns of Drug and Alcohol Use in Fatally Injured Drivers in Washington
State
Schwilke EW, dos Santos IS, **Logan BK** Society of Forensic Toxicologists Annual
Meeting, Portland, OR, October 2003
169. Lorazepam and Driving Impairment
Thatcher JE, Gordon AM, **Logan BK** Society of Forensic Toxicologists Annual Meeting,
Portland, OR, October 2003
170. Phencyclidine Findings in Drivers in Washington State
Gordon AM and **Logan BK** Society of Forensic Toxicologists Annual Meeting,
Portland, OR, October 2003
171. Driving Under the Influence of Ephedrine
Wilson M, Friel PN, Gordon AM, **Logan BK** Society of Forensic Toxicologists Annual
Meeting, Portland, OR, October 2003
172. Multiplexed CYP 2D6 *3 *4 and *5 Polymorphism - Real Time PCR for Application in
Forensic Pathology/Toxicology Methamphetamine/MDMA Cases
Wagner MA, Sakallah S, Gordon AM, **Logan BK** Society of Forensic Toxicologists
Annual Meeting, Portland OR, October 2003
- 173.* Neurobiology of Depression and Pharmacology of Antidepressants
Logan BK Society of Forensic Toxicologists Annual Meeting, Portland, OR,
October 2003

Presentations (cont'd)

- 174.* Stimulant Use and Road User Behavior
Logan BK The International Association of Forensic Toxicologists Annual Meeting, Melbourne, Australia, November 2003
175. Methadone Concentrations in a Treatment population, Impaired drivers, and Death Investigation Cases.
Logan BK and Gordon AM The International Association of Forensic Toxicologists Annual Meeting, Melbourne, Australia, November 2003
176. Ecstasy use, multiple perspectives shed light on use of 'club drug': Youth, young adults and MSM in Seattle
Caleb Banta-Green, MPH, MSW, Gary Goldbaum, MD, MPH, Susan Kingston, BS, Michael Hanrahan, BA, Richard Harruff, MD, PhD, **Barry Logan, PhD**, Matthew Golden, MD, MPH, 131st Annual Meeting of APHA, November 17, 2003
- 177.* Depression and Antidepressant Drugs
Logan BK 18th Annual Impaired Driver Conference, Washington Traffic Safety Commission, Skamania Lodge, Stevenson, WA, December 2, 2003
- 178.* Drug Impaired Driving: The Second Front
Logan BK 18th Annual Impaired Driver Conference, Washington Traffic Safety Commission, Skamania Lodge, Stevenson, WA, December 4, 2003
- 179.* Drug Facilitated Sexual Assault
Logan BK Forensic Investigation of Sexual Assault Conference, Spokane, WA December 16-17, 2003
- 180.* Lorazepam and Driving Impairment
Logan BK, Thatcher JE Transportation Research Board, TRB Committee on Alcohol, Other Drugs and Transportation (A3B10), Washington DC, January 2004
181. Methadone Concentrations in Treatment, Impaired Driving, and Death Populations.
Gordon AM, **Logan BK** American Academy of Forensic Sciences, Dallas, TX, February 2004
- 182.* Toxicology, Technology and Drugged Driving Laws
Logan BK Plenary Lecture - Symposium on Developing Global Strategies for Identifying, Prosecuting, and Treating Drug-Impaired Drivers, Tampa, FL, February 2004
- 183.* Drug and Alcohol Impaired Driving
Logan BK Washington State Liquor Control Board, Everett, WA, February 2004
- 184.* Forensic Toxicology Workshop
Logan BK Two-day NFSTC toxicology workshop, Ventura County, CA, April 2004

Presentations (cont'd)

- 185.* Research in Impaired Driving Toxicology
Logan BK IACP DRE Conference for Governors Highway Safety Representatives.
Alexandria, VA May 2004
- 186.* Opportunities for Greater Interaction between DREs and Toxicologists
Logan BK IACP Technical Advisory Panel, Alexandria, VA May 2004
- 187.* Improving the Integration of DRE, Investigative, and Toxicological Evidence in Drug Impaired Driving Prosecutions.
Logan BK NHTSA/NSC symposium, Seattle, WA, May 2004
188. An Online Database of Breath Alcohol Test Data for Public Information and Discovery Purposes.
Logan BK, Noedel J, Gullberg RG International Council on Alcohol Drugs and Traffic Safety, Glasgow, Scotland, August 2004
189. Changing Patterns of Alcohol and Drug Use in Fatally Injured Drivers in Washington State 1992-2003
Logan BK, Schwilke EW International Council on Alcohol Drugs and Traffic Safety, Glasgow, Scotland, August 2004
- 190.* Diagnosing Drug Impaired Drivers – Stimulants and Driving
Logan BK International Council on Alcohol Drugs and Traffic Safety, Glasgow, Scotland, August 2004
- 191.* Diagnosing Drug Impaired Driving –Plenary Session
Logan BK International Council on Alcohol Drugs and Traffic Safety, Glasgow, Scotland, August 2004
192. Toxicology of Methamphetamine and Related By-Products
Logan BK FBI Laboratory Symposium on Forensic Toxicology, Washington DC, August 2004
193. Methamphetamine Detection in Urine of Children Co-Existing with Clandestine Methamphetamine Manufacturing
Gordon AM, **Logan BK** Society of Forensic Toxicologists/TIAFT Annual Meeting, Washington DC, August 2004
194. Lorazepam and Death Investigation
Clarkson JE, Gordon AM, **Logan BK** Society of Forensic Toxicologists/TIAFT Annual Meeting, Washington DC, August 2004
- 195.* Methamphetamine Evidence in Children
Logan BK Washington Association of Prosecuting Attorneys, Leavenworth, WA September 2004
- 196.* Forensic Science in the State of Washington
Logan BK, Judicial Education DUI Forum, Lynnwood, Olympia, Spokane, WA, September – October 2004

Presentations (cont'd)

- 197.* Drug Use by Drivers: Principal Drugs in Common Use
Logan BK Countermeasures XV, Toronto, ON, November 2004
- 198.* Toxicology, Technology and Drug Driving Laws
Logan BK Countermeasures XV, Toronto, ON, November 2004
- 199.* Stimulants and Driving Impairment
Logan BK Arizona Department of Public Safety, Phoenix, AZ, November 2004
- 200.* Sampling in Forensic Toxicology.
Logan BK Evidence Based Forensic Medicine. American Academy of Forensic Sciences, New Orleans LA, February 2005
201. Topiramate: Positive Death Investigation and Impaired Driving Cases in Washington State
Gordon AM,. **Logan BK** American Academy of Forensic Sciences, New Orleans LA, February 2005

Professional Organizations

Current

- | | |
|--------------|---|
| 1984-present | Member, International Association of Forensic Toxicologists (TIAFT) |
| 1991-present | Diplomate, American Board of Forensic Toxicology (D.A.B.F.T.) |
| 1991-present | Member, National Safety Council, Committee on Alcohol and Other Drugs |
| 1995-present | Fellow, American Academy of Forensic Sciences |
| 1995-present | Member, the Society of Forensic Toxicologists |
| 1998-present | Member, International Council on Alcohol Drugs and Traffic Safety |
| 2002-present | Member, Canadian Society of Forensic Sciences |
| 2002-present | Member, American Society of Crime Laboratory Directors |

Past

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|---------|--|
| 1991-99 | Member of the Forensic Science Society |
| 1991-95 | American Academy of Forensic Sciences; Member |
| 1991-94 | Washington State Patrol Crime Laboratory Users Committee |
| 1991-94 | Washington Coalition of Government Laboratory Directors |
| 1989-93 | Member of the Southern Association of Forensic Science |
| 1989-91 | American Academy of Forensic Sciences; Provisional Member |
| 1986-95 | Member, Royal Society of Chemistry. (M.R.S.C., C.Chem.) |
| 1984-87 | Member of the Association of Clinical Biochemists (U.K.) |
| 1984-86 | Graduate member of the Royal Society of Chemistry (G.R.S.C.) |
| 1983-86 | Member of the Forensic Science Society |

Professional References

Provided on request.